

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050296

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D06F75/10 D06F75/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 D06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 381 (C-1226), 18 July 1994 (1994-07-18) -& JP 06 105996 A (TOSHIBA HOME TECHNOL CORP), 19 April 1994 (1994-04-19) abstract	1,13,14.
A	the whole document	2-4,6,7, 10
X	DE 43 15 800 A (KNORR WILFRIED) 24 November 1994 (1994-11-24) column 1, line 1-44 column 3, line 38 -column 5, line 12; figure 3.	1,2,14 3-10
A		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

24 June 2004

Date of mailing of the international search report

13/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Falkentoft, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050296

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 59 037999 A (MATSUSHITA ELECTRIC IND CO LTD) 1 March 1984 (1984-03-01) figures 1,4	1,2,14 3,4,6,7, 13
X A	WO 01/57302 A (KONINKL PHILIPS ELECTRONICS NV) 9 August 2001 (2001-08-09) page 3, line 16-34 page 5, line 8-11; figure 1	1,14 3,7,11, 13
A	US 6 009 645 A (SHIMIZU MASAO ET AL) 4 January 2000 (2000-01-04) abstract column 2, line 29 -column 3, line 11 column 8, line 4 -column 10, line 15; figures.	1-3,6,7, 13,14
A	US 3 002 302 A (FLOWERS THEODORE R) 3 October 1961 (1961-10-03) column 1, line 1 -column 5, line 33; figures 1-3	1-3,6,7, 14
A	GB 587 802 A (GEORGE HENRY WILKINSON) 6 May 1947 (1947-05-06) the whole document	1,3,4,7, 9
P,A	WO 03/052194 A (GUO TAO ; WONG NYIK S (NL); YONG JIANG (NL); ASOK S O KASEVAN KUMAR (N) 26 June 2003 (2003-06-26) the whole document	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050296

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 06105996	A	19-04-1994	NONE	
DE 4315800	A	24-11-1994	DE 4315800 A1 AU 6843994 A WO 9426966 A1	24-11-1994 12-12-1994 24-11-1994
JP 59037999	A	01-03-1984	JP 1706605 C JP 3075198 B	27-10-1992 29-11-1991
WO 0157302	A	09-08-2001	SG 86370 A1 CN 1363004 T WO 0157302 A1 EP 1169510 A1 JP 2003521320 T US 2001042326 A1	19-02-2002 07-08-2002 09-08-2001 09-01-2002 15-07-2003 22-11-2001
US 6009645	A	04-01-2000	JP 3257451 B2 JP 10328498 A JP 3257465 B2 JP 11076699 A JP 3430880 B2 JP 11090098 A JP 3119212 B2 JP 11090097 A CN 1203291 A , B	18-02-2002 15-12-1998 18-02-2002 23-03-1999 28-07-2003 06-04-1999 18-12-2000 06-04-1999 30-12-1998
US 3002302	A	03-10-1961	US 3041757 A US 3041756 A DE 1082220 B FR 1209989 A GB 890558 A DE 1095779 B GB 881434 A DE 1082221 B GB 892512 A	03-07-1962 03-07-1962 25-05-1960 04-03-1960 07-03-1962 29-12-1960 01-11-1961 25-05-1960 28-03-1962
GB 587802	A	06-05-1947	NONE	
WO 03052194	A	26-06-2003	SG 98046 A1 WO 03052194 A1	20-08-2003 26-06-2003